

SALES NETWORK

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Samsung Techwin cares for the environment at all product manufacturing stages to preserve the environment, and is taking a number of steps to provide customers with more environment-friendly products. The Eco mark represents Samsung Techwin's will to create environment-friendly products, and indicates that the product satisfies the EU RoHS Directive.

Warnings & Cautions

This information is provided to ensure your safety and to prevent any losses, financial or otherwise. Please read it carefully and use the product accordingly.

- * For product inquiries, please contact the retail shop where you bought the camera. The use of equipment such as an aerial ladder while providing after-sales service shall be at your expense.
- * Separate the power plug when thunder crashes or lighting flashes.
- * This product is support equipment for surveillance system. Therefore, we can't compensate for material loss and/or personal injuries by robbery, fire, natural disaster or something like this type.

Warning/Attention/Special Mark Messages



material loss and/or serious personal







Ignoring this information may result in

material loss and/or a slight injuries.

Indicates "No Disassembling

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

This marking shown on the product or its literature, indicates that it should not be disposed with other household seastes a be end of its working life. To prevent possible harm to the environment or human health from unconcluded was singuished separate this from other types of weeles and recycle it responsibly to promote the sustainable reuse restated resources.

Business users should contact their supplier and check the terms and conditions of the pu This product should not be mixed with other commercial wastes for disposal.

High Resolution Mini Dome Camera SID-53/56 User's Manual

Thank you for purchasing a SAMSUNG CCD CAMERA. Before attempting to connect or operate this product. please read these instructions carefully and save this manual for future use.

ENGLISH

NO USER SERVICEABLE PARTS INSIDE. BEEFR SERVICING TO OUR LEIFO



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

INFORMATION-This equipment has been tested and found to comply with limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will required to correct the interference at his own expense.

WARNING - Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

CAUTION: To prevent electric shock and risk of fire hazards:

- ◆ Do NOT use other than specified power source.
- Do NOT expose this appliance to rain or moisture.

This installation should be made by a qualified service person and should conform to all

Features

■Model Description ·SID-53X SID-56X

Ultra High Resolution

mSID-53 SERIES, 56 SERIES

Signal system

By adopting a diagonal 6mm(1/3") 410,000(NTSC) pixel, 470,000(PAL) pixel SONY CCD, the camera produces clear picture quality with a horizontal resolution of 580 TV lines for color.

Before operating the camera, confirm the camera model and proper input power voltage. In order that you can understand this manual thoroughly, we'll introduce our model description.

· SIGNAL SYSTEM

N → NTSC Model

P -- PAL Model

• NTSC models : SID-53N, SID-56N • PAL models : SID-53P, SID-56P

Excellent Sensitivity

The built-in high sensitivity COLOR CCD enable a clear image even in 0.04 Lux or lower illumination.

SSNR (Samsung Super Noise Reduction) Function

Thank you for purchasing a SAMSUNG CCD CAMERA.

The high performance WIN-IV DSP chip dramatically reduces the gain noise in digital image processing, producing clear, sharp images in low lighting environments.

Pan and Tilt

Pan and tilt are available after installing camera.

MINI DOME CAMERA (4) USER'S MANUAL -

Precautions

Do not install under extreme temperature conditions.



Use only under temperature conditions between

-10°C and +50°C. Provide good ventilation when using in high temperature conditions.





Severe lighting changes or flickering may hinder normal camera operation.

Do not install under unstable lighting conditions.



May cause a product malfunction.

Do not install in high humidity



May lower image quality.

Avoid touching the camera lens.



The lens is the most important component of the camera. Be careful not to smear it with fingerprints.

Avoid touching the camera lens.



Do not expose the camera to radioactivity



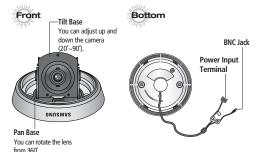
. If the camera is exposed to spotlight or object reflecting the strong light, smear or blooming may occur

Notes

 Please check the power whether it satisfies the normal specification before connecting the camera

If it is exposed to radioactivity, For heated CCD, it will be out of order.

Getting to Know Your Camera



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Accessories









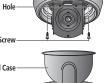
Installation

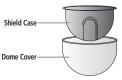
Installing Camera

1. Fix the camera to a ceiling using two screws.

2. After fixing it, adjust its pan base and tilt base properly.

3. After setting them, secure the shield case and dome-cover.



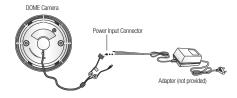


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Connection to Power

Connect the adapter to the power input connector as shown in the figure below.
 Use a DC 12V. (The Adapter is not provided with the Dome Camera.)



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Troubleshooting

If you have trouble operating your camera, refer to the following. If the guidelines do not enable you to solve the problem, contact an authorized technician.

- ■The image on the screen is dim.
- . Check if the lens are stained. If dirty, clean the lens with soft, clean cloth.
- The image is dimmer at night than daytime. If the focus is not right, adjust it at daytime.
- ■The contrast on the screen is too weak.
- · Adjust the contrast feature of the monitor.
- If the camera is exposed under too strong light, change the camera position.
- Adjust the lens BACK FOCUS again.
- ■The camera is not work properly, and the surface of the camera case is hot.
- Check that you have connected the camera to a proper power (DC 12V)

For DC Power Type

Resistance of copper wire [at 20C° (68°F)]

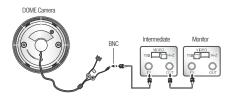
Copper wire size (AWG)	#24(0.22mm²)	#22(0.33mm²)	#20(0.52mm²)	#18(0.83mm²)
Resistance (Ω/m)	0.078	0.050	0.030	0.018
Voltage Drop (V/m)	0.028	0.018	0.011	0.006

- As the voltage drop according to the length of the cable in the above table, a camera may malfunction if there is an excessively long cable run.
- * Voltage for camera operation: 12V DC ±10%
- * Voltage drops in the above table are variable according to types of cable manufacturer.

Connection to Monitor

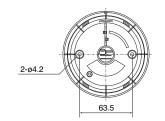
Connect the VIDEO-OUT jack to the VIDEO-IN jack of monitor.

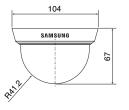
- As a connecting method varies according to instruments, refer to the manual supplied with the instrument.
- Connect the cable after power is turned off.
- Set the 75Ω / Hi-Z selection switch. If it is a intermediate device, switch it to Hi-z and if it is final device, switch it to 75Ω . (Please refer to the Monitor Manual.)



MINI DOME CAMERA 10 USER'S MANUAL

Dimension





Panning & Tilting Control

You can adjust the Panning and Tilting angle freely. (Panning angle: 360°, Tilting angle: 20°~90°)



- Adjustment Panning angle: After attaching the dome camera to a ceiling, adjust the panning angle for better monitoring area by rotating the Pan Base. The panning angle can be adjusted 360' freely.
- 2) Adjustment Tilting angle: After attaching the dome camera to a ceiling, adjust the tilting angle for better monitoring area by rotating the Tilt Base. The tilting angle can be adjusted to 20' from 90' freely, (based the ceiling surface)

Notes

- After loosening Pan or Tilt Base holding screws, adjust its angle. And then tighten screws again.
- In case of adjusting the tilting, do not take the lens for preventing hysical shocks. Please take the Tilt Base.
- . This dome camera is to be installed on the ceiling by factory default.

MINI DOME CAMERA 11 USER'S MANUAL

Specification

ITEM			SID-53N	SID-53P	SID-56N	SID-56P	
Power Source			DC 12V±10%/Max. 1.8W				
CCD	Sens	sor	1/3 inch, Sony Super HAD CCD				
	Tota	l Pixels	811(H) x 508(V)	795(H) x 596(V)	811(H) x 508(V)	795(H) x 596(V)	
	Effective Pixels		768(H) x 494(V)	752(H) x 582(V)	768(H) x 494(V)	752(H) x 582(V)	
Sync.	Scan	nning System	2:1 Interlace				
	Sync	hronization	Internal Only				
	Frequency		15.734 KHz	15.625 KHz	15.734 KHz	15.625 KHz	
			59.94 Hz	50.00 Hz	59.94 Hz	50.00 Hz	
E L E C T R I C A L	Reso	olution	580 TV Lines(Min.)				
	S/N(Y signal)	52 dB (AGC Off, Weight Of				
	Vide	o Output	1.0Vp-p/75Ω (Video 0.714Vp-p Sync 0.286Vp-p)				
	Min.	.Illumination	0.04 Lux/F1.2(Sens-up)				
	Auto Functions		Electronic shutter speed		AU		
			WHITE BALANCE		AUT0		
			BACKLIGHT		AUTO		
			Gain Control		AUTO		
			SENS-UP		AUTO		
			SSNR(Noise Control)		AUTO		
			SHARPNESS		AUTO		
Lens(Built-in)		Fixed Lend f=3.0mm, F2.0 Fixed Lend f=6.0mm, F		-6.0mm, F2.5			
Monitorin	g	Pan	Manual 360°				
Angle		Tilt	Manual 20 °~ 90°				
Operating temperature/Humidity			-10°C to +50°C / 30% to 80% RH				
Storing Temperature / Humidity			-20°C to +60°C / 30% to 90% RH				
Dimention			Ø104 x 67mm(H)				
Weight			180g				

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Camera Operation

Built-in functions of the SID-53, SID-56 Camera include the following

	Auto Functions	Setting	Descriptions	
	Electronic Shutter	ESC	The shutter is controlled according to the	
	Speed		brightness of screen by automatically.	
	WHITE BALANCE	ATW	It can be used within the color temperature	
	WHITE DALAINGE		range 1,800K~10,500K.	
	BACKLIGHT	BLC	It helps view a desired area of picture at the	
	DAOILLIGITI		backlight condition.	
	GAIN CONTROL	HIGH	The gain increases or decreases within the	
	UAIN CONTINUE		range of 6dB~34dB	
	SSNR	ON	There is sufficient reduction in noise levels	
	(Noise Reduction)	OIV	without causing much ghost imaging.	
		AUTO	It helps maintain a bright, clear screen image by	
	SENS UP		automatically detecting changes in the level in	
	OLIVO OI		low light levels without causing much ghost	
			imaging.	
		AUT0	The mode is switched to Color in a normal	
	DAY/NIGHT		environment, but switches to B/W mode when	
			ambient illumination is low.	
	SHARPNESS	ON	The outline of the video image becomes cleaner	
			and more distinctive.	
	LENS SHADE	ON	It helps correct shading of Lens.	
	<u> </u>			

- MINI DOME CAMERA 12 USER'S MANUAL -

Declaration of Conformity

 Application of Council Directive(s)
 89 / 336 / EEC

 Manufacturer's Name
 SAMSUNG TECHWIN CO., LTD

 Manufacturer's Address
 SAMSUNG TECHWIN CO., LTD

 42, SUNGJU-DONG CHANGWON-CITY,
 KYUNGNAM. KOREA, 641-120

European Representative Name

European Representative Address Equipment Type/Environment

 Model Name
 SID-53/56

 Beginning Serial NO.
 \$6300001

 Year of Manufacture
 2008. 04. 01

Conformance to EN 50081-1 : 1992

EMC-Directive 89/336 EEC and 92/31/EEC

EN 50130-4 : 1996

MINI DOME CAMERA

We, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s).

SAMSUNG TECHWIN CO., LTD Manufacturer Legal Representative in Europe Hee Suy Kin Signature Signature Full Name YOUNG TAEK SON Full Name Position QUALITY CONTROL MANAGER Position CHANGWON, KOREA Place Place Date 2008. 04. 01

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MINI DOME CAMERA 13 USER'S MANUAL —

MINI DOME CAMERA 14 USER'S MANUAL —

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